EXHIBIT GG

TO DECLARATION OF S. MERRILL WEISS IN SUPPORT OF PLAINTIFF ACACIA MEDIA TECHNOLOGIES CORPORATION'S MEMORANDUM OF POINTS AND AUTHORITIES IN OPPOSITION TO ROUND 3 DEFENDANTS' MOTION FOR SUMMARY JUDGMENT OF INVALIDITY UNDER 35 U.S.C. § 112 OF THE '992, '863, AND '702 PATENTS; AND SATELLITE DEFENDANTS' MOTION FOR SUMMARY JUDGMENT OF INVALIDITY OF THE '992, '863, AND '720 PATENTS

Hovsepian v. Apple, Inc.
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Chronology of Microsoft Windows Operating Systems

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This document is an attempt to bring various published sources together to present a timeline about Micr Windows Operating Systems.

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References are numbered in [brackets], which are listed here. A number after the dot gives the page in th source.

Last updated: 2008 October 29.

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V V

Ads

1981-1989	1990-1993	1994-1996	1997-1999	2000-end

1981

September

- Microsoft begins work on a graphical user interface for *MS-DOS*, initially called *Interface Manag* because it would effectively hide the interface between programs and devices like printers and vid (*This is the beginning of Windows.*) [346.175] [1648.51]

1983

(month unknown)

- Microsoft shows IBM a raw version of *Windows*. IBM is not interested as they are already develo what would be called *TopView*. [45]

April

- Microsoft gives a "smoke-and-mirrors" demonstration of *Interface Manager* (later called *Window* consists entirely of overlapping windows, appearing to be running programs simultaneously. [477 [1299.220]

(month unknown)

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- Microsoft marketer Rowland Hanson convinces Bill Gates to change the name of *Interface Manag* *Windows*. [477.164] [1149.252]

November

- Microsoft again shows *Windows* to IBM, and again IBM is not interested. [45]

November 10

- At the Helmsley Palace Hotel in New York City, Microsoft formally announces *Microsoft Windo* IBM PC. This is the most elaborate product introduction in industry history. *Windows* is promised release in April, 1984. Bill Gates predicts that by the end of 1984, *Windows* would be used on ove all IBM compatible PCs. (*The first version doesn't even ship until late 1985.*) [9] [45] [123] [137] [346.177] [389.28] [416.67] [477.158] [548.159] [909.228] [1149.258] [1299.241] [1639.108] [16

1984

May

- Microsoft ships software developer kits for *Windows*. [909.229]

June

- At Microsoft, Bill Gates and Steve Ballmer write an internal applications strategy memo on the cc commitment to the graphical user interface, on the Macintosh and for *Windows*. [686.148] [1299.2

October

- Microsoft gives a demonstration of the final version of *Windows* to IBM. For the third time, IBM interested. [45]

1985

May

- Microsoft demonstrates *Microsoft Windows* at Spring COMDEX. Release date is set for June, at a US$95. [346.187]

June

- Microsoft announces *Windows* 1.0. [75] [150]

July

- Micrografx releases *In-A-Vision*, the first application for *Microsoft Windows* from an independent company. [346.191] [307.95] [1149.391] [1299.294]
- Microsoft ships the "premiere edition" of *Windows* to software developers, OEM customers, and s press members. [1299.284]

November 20

- Microsoft ships *Microsoft Windows* version 1.01 for the IBM PC, for US$100. It is delivered two after the initial announcement of the product. [16] [107] [117] [120] [123] [130] [134] [136] [146 [346.192] [477.159] [548.159] [909.230] [1089.D3] [1133.22] [1280.46] [1299.292] [1629.34] [1 [1639.109] [1648.52] [1799.3] [1897.124,128] (November 21 [1149.313]) (v1.03 [346.187,268] [

November 22

- Apple Computer and Microsoft sign a licensing agreement permitting Microsoft royalty-free right graphical display technology of the Macintosh for *Windows* 1.0, and Macintosh versions of severa Microsoft products. [309.256] [346.192] [477.170] [1149.314] [1205.34] [1299.292] (1984 [38])

1986

January

- Lotus Development announces it would support *Microsoft Windows* with future product releases.

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[1133.22]
- Two months after releasing *Microsoft Windows*, Microsoft has shipped 35,000 copies. [1133.22]

February
- Microsoft releases a French version of *Microsoft Windows* 1.02. [346.268]
- Microsoft urges *MS-DOS* program developers to adopt the programming rules of *Windows*, to ens work under future versions of *DOS* and *Windows*. [1133.22]

(month unknown)
- Microsoft purchases Dynamical Systems Research, maker of a *TopView* clone called *Mondrian*, fi US$1.5 million in Microsoft stock. Microsoft makes the purchase for *TopView* compatibility in *W* [45] [1299.314]
- At Microsoft, Steve Ballmer tries to convince Bill Gates to abandon *Windows* and put full emphas *Presentation Manager* for *OS/2*. Bill Gates decides against it. [1149.348]

1987

April 2
- Microsoft announces *Microsoft Windows* 2.0. [123] [137] [1299.328] [1648.52] (April 1 [909.231

July
- In New York, Microsoft's Steve Ballmer demonstrates *Windows* 2 for 600 software developers. [1

October 6
- Microsoft announces *Microsoft Windows* 2.0, and *Microsoft Windows*/386, priced at US$195. [12 [477.159] [1299.346] (September [909.231])
- Microsoft unveils the *Microsoft Excel* spreadsheet software for *Microsoft Windows* 2.0, the first n application for *Windows*. Included is Microsoft Windows v2.01. [119] [123] [346.204] [389.28] [[909.230] [1049.147] [1299.293,346,359] [1559] [1631.40] [1639.110] (November [346.270])

December 9
- Microsoft ships *Microsoft Windows* 2.01. It features overlapping windows, and can use protected the 80286 processor. [75] [130] [346.193,206] [477.159] [909.231] [1639.110] [1897.128] (v2.03 January 1988 [136] [1299.359] [1886.67]) (November [146] [346.270])

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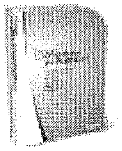
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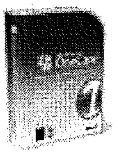
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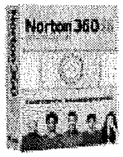

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December
- Microsoft ships *Microsoft Windows*/386 software. [909.231] [1629.34] [1639.110] [1897.128] (N [346.270])
- Microsoft ships the one millionth copy of *Windows*. [346.270] [1897.128]

1988

March
- Microsoft introduces the *Microsoft SDK for Windows*. [1049.133]

March 17
- Apple Computer files an 11-page copyright infringement suit in federal court in San Jose, Califor accusing Microsoft of stealing visual display features of the Macintosh computer for use in *Micro Windows* 2.0. Apple claims *Windows* violates 13 different copyrights. Hewlett-Packard is also nar

defendant, for copyright violations in its *New Wave* software. [38] [46] [75] [309.256] [328.15] [3 [346.270] [477.160] [548.337] [580.191] [909.231] [1149.352] [1886.67] [2142.31]

May 20

- Judge Robert Aguilor agrees to split the Apple Computer - Microsoft case into two separate phase decide if Microsoft had been licensed to use Macintosh features in *Windows* 2.03, and, if necesssa determine if Microsoft had violated Apple's copyrights. [1299.363]

June

- Microsoft ships *Windows*/286 2.1. [136] [146] [1897.129] (July [909.231]) (Windows 286 2.0 [16 (1987 [45])
- Microsoft ships *Windows*/386 v2.1. [136] [146] (July [909.231]) (1987 [45])

October

- Microsoft ships the 1 millionth copy of *Microsoft Windows* 2.0. [606.81]

1989

March 21

- In San Francisco Federal District Court, Judge William Schwarzer rules that *Microsoft Windows* 2 not covered in the Apple Computer / Microsoft 1985 technology licensing agreement. The judge r only *Windows* 1.0 as it appeared in November 1985 was covered, and that *Windows* 2.03 is fundai different. This allows the issue to proceed to trial, in the suit of Apple Computer against Microsof March 1988. [309.256] [1149.355] [1299.383] (April [346.195])

(month unknown)

- Quote from a Lotus Development official, while demonstrating a new DOS version of *Lotus 1-2-3* don't see *Windows* as a long-term graphical interface for the masses.". (*Within a year, Microsoft w release Windows 3.0, firmly establishing Windows as a long-term graphical interface for the mas* [312.14]

July 21

- US Federal District Judge William Schwarzer tentatively rules that most visual features of *Windo* are covered by the 1985 license agreement between Microsoft and Apple computer. Of 260 simila claimed by Apple, ten remain to be decided. [2142.31]

November 13

- At the fall COMDEX show, IBM strongly endorses *Microsoft Windows* for low end PCs, and Mic publicly endorses *OS/2* as the future platform for higher-end PCs. IBM and Microsoft agree to joi develop a consistent, full-range of systems software. [38] [45] [123] [389.29] [477.160] [1064.22] [1149.358]
- IBM and Microsoft issue a joint statement that Microsoft would hold back features for *Windows* t industry acceptance of *OS/2*. (*This letter causes the Federal Trade Commission to begin an invest of Microsoft for anticompetitive collusion.*) [1149.373]

End of 1981-1989. Next: 1990.

The complete timeline can be purchased in a PDF file for US$10 from the author.

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1981-1989	1990-1993	1994-1996	1997-1999	2000-end

A list of **references** to all source material is available.

Other web pages of interest:

- Chronology of Personal Computers
- Personal Computer References in Pop Culture
- Chronology of Microprocessors
- Chronology of Handheld Computers
- Chronology of Workstation Computers
- Ken P's Today in History

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V V

Ads

| 1981-1989 | **1990-1993** | 1994-1996 | 1997-1999 | 2000-end |

1990

May 22
- At the Center City at Columbus Circle in New York, Microsoft introduces and ships *Microsoft Wi* 3.0. This version allows addressing memory above 640 kB. Microsoft spends US$3 million for op day marketing, as part of a US$10 million promotional campaign. [15] [28] [45] [75] [123] [146] [346.239] [346.272] [379.256] [389.29] [477.161] [479.128] [548.159] [595.26] [606.81] [620.13 [618.296] [721.156] [769.4] [909.232] [1149.359] [1299.1] [1527.176] [1639.114] [1897.129]

(month unknown)
- John Dvorak quote: "I think *Windows* 3.0 will get a lot of attention; people will check it out, and t long they'll all drift back to raw *DOS*. Once in a while they'll boot *Windows* for some specific pur many will put it in the closet with the Commodore 64.". [648.20]

September
- IBM and Microsoft end co-operative work on operating systems, dividing up work-to-date betwee in a series of cross-licensing agreements. Microsoft will work on *Windows*, *DOS*, and a portable v *OS/2*. IBM will continue development of 16-bit (v1.x) and 32-bit (v2.0) versions of *OS/2*. [162] [[379.256] [477.161] [511.95] [795.15] [909.232] [1299.399] [1897.129] (November [38])

(month unknown)
- Microsoft ships the one millionth copy of *Windows* 3.0. [1149.362]

December
- Microsoft begins shipping the first version of the Object Linking and Embedding (OLE) library fc *Microsoft Windows* 3.0. [511.67]

Year
- Shipments of *Microsoft Windows* 3.0 for the year: 2.75 million. [1080.197]

1991

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January

- Microsoft announces *Microsoft Windows for Pen Computing*. It will include handwriting-recognit software. [1093.159] [1149.393]
- Microsoft announces the *Windows New Technology* operating system. [909.232]

March 6

- In the lawsuit of Apple Computer versus Microsoft and Hewlett-Packard, Federal District Court J Vaughn Walker in San Francisco denies Hewlett-Packard's request to declare Apple's copyrights i and also rejects Microsoft's argument that portions of *Windows* are covered by the 1985 license fr Apple. However, the judge agrees to Microsoft's request to consider the copyright issue feature-by rather than on the basis of overall look and feel. [346.195]

March 18

- In San Francisco, California, the Software Publisher's Association holds its Spring Symposium, ir the Excellence in Software Awards ceremony. Winners include: Best Business Program: *Microso Windows 3.0*. [1498.64]

April

- In the lawsuit of Apple Computer versus Microsoft and Hewlett-Packard, Apple broadens its suit include *Windows* 3.0. [346.195]

(month unknown)

- Quote by Aaron Goldberg, of International Data Corp.: "I don't know if anyone has tried to run *W* on a 286 machine, but frankly I'd rather have knitting needles in my eyes.". [169]

May

- One year after the release of *Microsoft Windows* 3.0, more than three million copies have been sol [618.296] [1629.34] (over four million [1299.9])

July

- Microsoft changes the name of *OS/2* v3.0 to *Windows NT*. [40]

October 8

- At the American Museum of Natural History in New York City, the Multimedia Marketing Counc launches the Multimedia PC. Keynote speakers include James Burke and Bill Gates. Requirement Multimedia PC are: 80286 processor, 2 MB RAM, 40 MB hard drive, VGA graphics, two-channe audio record/playback, CD-ROM, and *Microsoft Windows* with Multimedia extensions. [704.217] [1530.62]

October

- Microsoft releases *Windows* 3.0a with Multimedia Extensions. Included is Microsoft's first media software; it can play CD audio and WAV files. [1608.38] [1897.129]
- At the COMDEX show, Microsoft gives the first public demonstration of *Windows NT*. [909.232]

December 31

- Total shipments of *Microsoft Windows* 3.0 to date: 15 million. [606.141]

Year

- Desktop operating system market share in the world: *Microsoft Windows* 75%. [1429.58]

1992

January

- Microsoft releases the *Windows Style Guide*. [688.99]
- Microsoft hosts the *Windows NT* developers conference. [1059.28]
- Microsoft hosts a User Interface Design Preview, to solicit input on the *Windows* interface from V application developers. [688.99]

March

- Microsoft launches its first TV advertising campaign, for *Windows*. [123]

April

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- IBM ships the *OS/2* 2.0 operating system. It requires an Intel 386 processor, 4 MB RAM, and add *OS/2* 3.0 for *Windows* 3.0 compatibility. Code-name during development was Cruiser. [477.165] | [606.81] [688.44,688.107] [734.347] [858.71] [1299.383] [1572.28] (March [1057.32] [1639.116

April 6

- At the Comdex / Windows World conference, Microsoft unveils *Windows* 3.1, including scalable TrueType fonts. The software comprises over 3 million lines of code. (*One million copies of the n upgrade versions are sold through retail channels within the first 50 days.*) [75] [123] [388.6] [47 [479.128] [620.131] [688.44] [909.232] [1057.32] [1271.36] [1299.437] [1629.34] [1639.116] [1 [1897.130] (May [509.177] [534.130] [721.156])

April

- Microsoft releases the Microsoft SDK for *Windows* 3.1. Price is US$349. [1049.133]
- Microsoft ships *Windows for Pen Computing* operating system. [1093.159] [1897.130]
- In Boston, Massachussettes, Microsoft and Digital Equipment announce *Windows NT* for comput on the 64-bit Alpha processor. [1299.438]

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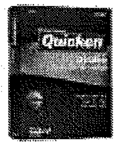
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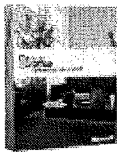
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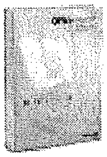
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April 30

- In the first four months of the year, Microsoft has shipped 10 million copies of *Windows* 3.0. [606 [1057.155]

June

- IBM and Microsoft sign a "divorce" document, formally ending their cooperation on operating sy development. IBM claims no rights to *Windows NT*, can use *Windows* source code until Septembe and will pay Microsoft a royalty for each copy of *OS/2* sold. Microsoft pays a lump sum of US$2 million for the use of IBM patents. [68] [1299.438]

(month unknown)

- Microsoft ships the Windows Sound System. [909.238]
- Nolan Bushnell, chairman of Octus, quote: "Within three years, televisions will have either a Win Mac interface.". [1049.16]

July 6

- The Win32 Professional Developers Conference is held, in San Francisco, California. Microsoft f makes public mention of work on "Chicago", the next version of *Windows*. Microsoft also gives o 4500 copies of Win32 SDK and pre-release versions of *Windows NT* for Intel 386/486 processors MIPS R4000 processors. [909.232] [737.24] [954.1] [606.82] [1639.116] (July 4 [1639.116]) (Wi Professional Developers Conference) [955.20] [1059.28])

October

- Microsoft releases 50,000 copies of the first beta-test version of Windows NT. [928.67]

October 27

- Microsoft ships *Microsoft Windows for Workgroups* 3.1, which integrates networking and workgr functionality. [123] [210.38] [909.236] [1264.42] [1629.34] [1639.123] [1648.52] (November [47

Year

- Shipments of Microsoft Windows for the year: over 10 million units. [915.27]

1993

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(month unknown)
- Microsoft *Windows* replaces *DOS* as the best-selling software application. [1700.24]

March
- At Microsoft's Windows Hardware Engineering Conference, the Plug and Play initiative is unveil Compaq Computer, Intel, Microsoft, and Phoenix Technologies are initial supporters. [694.80] [9 [1432.27] (April [122])
- The Software Publishers Association reports that MS-Windows applications are outselling MS-D programs for the first time. [479.128] [1629.34]

April
- Microsoft releases the OLE 2.0 specification for Windows development. [479.129] [687.120]
- Microsoft reports that there are 25 million licensed users of *Microsoft Windows*. [123] [389.29] [1 [1897.130]

May 11
- Microsoft chairman Bill Gates approves a plan by product manager Russ Siegelman to create an o service and include it as part of the next *Windows* release. Code-name for the product is Marvel. (*emerge as the Microsoft Network in August 1995.*) [1700.26]

May 24
- At the COMDEX show, Microsoft formally launches the *Windows NT* operating system. Initial ve 3.1. Price is US$495, or US$295 as an upgrade from a previous Windows operating system. The s comprises over 4 million lines of code. [123] [374.4] [909.236] [985] [1271.36] [1559] [1639.124 [1648.52] (July [548.159] [721.156]) (July 1992 [387.98] [479.129])

June 1
- U.S. District Court Judge Vaughn Walker rules against Apple Computer in its 63-month legal suit Microsoft and Hewlett-Packard. The judge rules that ninety percent of the elements in Windows a covered by Microsoft's 1985 license from Apple Computer. Apple Computer files an appeal. [61] [123] [389.29] [548.338] [580.191] [1299.463]

June
- IBM releases OS/2 2.1, now including Win-OS/2 3.1 Windows 3.1 support. Code-name during development was Borg. [60] [479.129] [858.71] [689.231] [1312]

July
- Microsoft begins shipping Windows NT Workstation 3.1, and Windows NT Advanced Server 3.1 [567.132] [1299.461] (August [66])

August
- Apple Computer loses its appeal of the ruling in favor of Microsoft in June, ending its legal battle Microsoft Windows. [582.92] [1886.69]
- Microsoft releases the *Windows NT* 3.1 operating system. The software comprises 6.5 million line code. [1182.166] [1897.130]

September
- The 1992 Joint Development contract between IBM and Microsoft, in which each company had a the other's source code for OS/2 and Windows, expires. [501.102] [544.30]

October
- IBM and Motorola announce the PowerPC Reference Platform (PReP) specification. With this, sy makers could make compatible systems that can run shrink-wrapped applications. Such systems c AIX, Solaris, Windows NT, and others. [881.81] [1099]

November 8
- Microsoft ships *Windows for Workgroups* 3.11. [123] [479.129] [538] [909.236] [1559] [1629.35 [1639.124] (March [721.156])

December 10
- SunSoft (a subsidiary of Sun Microsystems) ships the first version of WABI, providing Microsoft Windows application compatibility on Solaris, Intel, and Sparc versions of UNIX. [73] [1365.40]

Exhibit 66 Page 559

Year

- Shipments of Microsoft Windows operating system for the year: 25 million. [824]
- Shipments of Microsoft Windows NT for the year: 300,000. [507.32] (500,000 [824])

End of 1990-1993. Next: 1994.

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